

CLAIMS

1. A black toner particle for use in a printing toner, the particle comprising:
a polymer:
5 carbon black; and
a plurality of different colored pigments;
wherein the carbon black and pigments are dispersed in the polymer.
2. A black toner particle according to claim 1 wherein the plurality of colored pigments
10 comprises two colored pigments.
3. A black toner particle according to claim 1 wherein the plurality of colored pigments
comprises three or more colored pigments.
- 15 4. A black toner particle according to any of the preceding claims wherein one of the
colored pigments is a blue pigment.
5. A black toner particle according to claim 4 wherein the blue pigment has a color index
pigment blue 15.3.
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6. A black toner particle according to claim 4 wherein the blue pigment has a color index
pigment blue 15.4.
7. A black toner particle according to claim 6 wherein the blue pigment is a Phtalocyanine
25 pigment.
8. A black toner particle according to any of the preceding claims wherein one of the
colored pigments is a violet pigment.
- 30 9. A black toner particle according to claim 8 wherein the violet pigment has a color index
pigment violet 23.
10. A black toner particle according to claim 8 wherein the violet pigment is a Dioxazine
pigment.

11. A black toner particle, in accordance with any of the preceding claims wherein the carbon black and different colored pigments provide the toner particle with a Chroma value having magnitude less than about 2, after printing on white paper.

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12. A black toner particle, in accordance with claim 11 wherein the carbon black and different colored pigments provide the toner particle with a Chroma value having magnitude less than about 1.5, after printing on white paper.

10 13. A black toner particle, in accordance with any of the preceding claims wherein the carbon black and different colored pigments provide the toner particle with a Chroma value having magnitude less than about 1, after printing on white paper.

14. A black toner particle according to any of the preceding claims wherein the polymer is a copolymer of ethylene and met acrylic acid.

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15. A black toner particle according to any of the preceding claims wherein the carbon black is Nipex 150.

20 16. A black liquid toner comprising toner particles in accordance with any of claims 1-15 dispersed in a carrier liquid.

17. A liquid toner according to claim 16 and also including a charge director.

25 18. A black powder toner comprising toner particles in accordance with any of claims 1-15.

19. A method of printing an image on a substrate comprising:

generating a charge distribution responsive to the image on a surface, the charge distribution defining image areas and background areas;

30 adhering toner particles comprised in a toner in accordance with any of claims 16-18 to image areas on the surface; and

transferring the toner particles from the surface to the substrate.